	А	В	С	D	E	F	G				
1			TABLE 1 - 12/28/11 FIELD AND QC SAMPLING SUMMARY								
3				WINDOWS - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	700 <u>-</u> 011 3011010230100000						
4		DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVA									
H			Simon, 303QoEIIAMA COOKTI, TEMMSTEVA								
5	Lab	Parameter/Method	Matrix	Field Samples	Bkgd		QC				
6						Dup	Trip ¹ Blanks				
7	Ft. Meade	Alkalinity (SM 2320B) (Total Hardness, HCO3, CO3) (2320B, 2340B)	drinking water	60	0	6	0				
8	Ft. Meade	Alcohols: Ethanol, methanol, 1-propanol, 1- butanol, 2-butanol (8015D)	drinking water	60	0	6	0				
9	Ft. Meade	Anions, Chloride, Bromide, Fluoride, Nitrate/Nitrite as N, Orthophosphorus as P, Sulfate as SO4 (300.0)	drinking water	60	0	6	0				
10	TechLaw	Bacteria (total coliform, HPC)	drinking water	60	0	6	0				
11	Isotech	d ¹³ C and d ² H of methane (isotech)	drinking water	10	0	0	0				
12	Isotech	d ¹³ C of inorganic carbon (isotech)	drinking water	10	0	0	0				
13	Isotech	Complete compositional analysis of headspace gas (isotech)	drinking water	10	0	0	0				
14	Isotech	Diss. gases methane, ethane, ethene (isotech)	drinking water	10	0	0	0				
15	TechLaw	Dissolved Gases, Methane, Ethane, & Ethene (RSK-175)	drinking water	60	0	6	0				
16	TechLaw	Ethylene Glycol (8015M)	drinking water	60	0	6	0				
17	?	DRO (8015M)	drinking water	60	0	6	0				
18	?	GRO (8015M)	drinking water	60	0	6	0				
19	TechLaw	Gamma Spec (K-40, Ra-226, Ra-228, Th-232, Th- 234, U-234, U-235, U-238) (901.1)	drinking water	60	0	6	0				
20	Ft. Meade	Glycols incl. 2-Butoxyethanol (8316)	drinking water	60	0	6	0				
21	TechLaw	Gross Alpha/Beta (900.0)	drinking water	60	0	6	0				

	Α	В	С	D	E	F	G
		Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se	***				
1011 252		Zn, Ti, Sr, Ba, Sn, Sb, Be, Cd, Co, Tl, U, V,K, Hg	drinking water	60	0	6	0
22	Ft. Meade	(200.8/245.1)					
		Metals: Al, Ca, Cr, Cu, Fe, Mg, Mn, Ni, Na, As, Se Zn, Ti, Sr, Ba, Sn, Sb, Be, Cd, Co, Tl, U, V,K, Hg	Filtered	60	0		0
23		(200.8/245.1)	drinking water	60	0	6	0
		Methylene Blue Active Substances (MBAS) (SM	drinking water	60	0	6	0
24	TechLaw	5540C)	water				
			drinking	60	0	6	0
25	Ft. Meade	Nitrate/Nitrite (353.2)	water			-	_
			drinking	60	0		0
26	TechLaw	Oil & Grease (HEM) (1664A)	water	60	0	6	0
		, , , , , , , , , , , , , , , , , , , ,	drinking				
27	Ft. Meade	-11 (00405)	water	60	0	6	0
21	rt. Meade	рн (9040с)					
			drinking	60	0	6	0
28	Ft. Meade	Phosphorus, Total (365.1)	water				
			drinking	60	0	6	0
29	TechLaw	Ra-226 (903.1)	water	00	U	0	
			drinking				
30	TechLaw	Ra-228 (904.0)	water	60	0	6	0
30	TCCTTLGW	Na 220 (504.0)					
		Semi-Volatiles (TCL plus TICs) (CLP Trace plus	drinking water	60	0	6	0
31	Ft. Meade	TICS) (OLC03.2)	water				
			drinking	60	0	6	0
32	Ft. Meade	Solids, Total Dissolved (TDS) (2540C)	water				_
			drinking	50	0	6	0
33	Ft. Meade	Solids, Total Suspended (TSS) (2540D)	water	60	0	6	0
			drinking				
24	Isotech	Stable isotopes of water (O,H) (isotech)	water	10	0	0	0
34	isotecn	Stable isotopes of water (O,H) (isotech)					
			drinking	60	0	6	0
35	TechLaw	Turbidity, Nephelometric (180.1)	water				
			drinking	60	0	6	0
36	TechLaw	2-Methoxyethanol (8015B)	water	00	O		
			drinking			w-	
37	TechLaw	1-methylnapthalene (8270 or equivalent)	water	60	0	6	0
J,	· · · · · · · · ·	, , , , , , ,	drinkina				
20	T+ N4I	Volatiles Incl. Acrylonitrile (TCL plus TICs) (CLP	drinking water	60	0	6	1 per cooler
	rt. Meade	Trace - 0.5 ug/L QL) (OLC03.2)	water				
39		Notes:					
40		1. This QA sample will be an aqueous matrix.					
41		sampling equipment is used.					
42		3. Estimate based on 5 sampling days					
43		Кеу:					
			0.1/0.0	1. 1.			
		Bkgd = Background	QA/QC = OH	ality assurance/quality o	ontrol		

	Α	В	С	D	E	F	G
45		MS/MSD = Matrix Spike/Matrix Spike Duplicate	Sr = Strontiu	m			
46		CRQL = Contract-Required Quantitation limit.					
47		Dup = Duplicate					
48							
49							
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3	NIA							
4	NIA			Takal Fiald				
5	Sample Sum	mary		Analyses (n	and QA/QC ot including VISD) ³			
)				S00000000	390.000 S.A.C. (g. 1)			
	Rinsate ^{1'2} Blanks	Field¹ Blanks	MS/MSD					
6								
7	0	5	0	7	'1			
8	0	5	3	7	' 1			
9	0	5	0	7	7 1			
10	0	5	0	7	'1			
11	0	0	0	1	.0			
12	0	0	0	1	.0			
13	0	0	0	1	.0			
14	0	0	0	1	.0			
15	0	5	0	7	' 1			
16	0	5	0	7	'1			
17	0	5	0	7	'1			
18	0	5	0	7	7 1			
19	0	5	0	7	' 1			
20	0	5	0	7	' 1			
21	0	5	0	7	7 1			

	Н	ı	J	K L	М	N	0
				•	70 (554)	30.00	
22	0	5	6	71			
23	0	5	6	71			
24	0	5	0	71			
25	0	5	0	71			
26	0	5	0	71			
27	0	5	0	71			
28	0	5	0	71			
29	0	5	0	71			
30	0	5	0	71			
31	0	5	3	71			
32	0	5	0	71			
33	0	5	0	71			
34	0	0	0	10			
35	0	5	0	71			
36	0	5	0	71			
37	0	5	0	71			
38	0	5	3	71 + Trip Blanks for Coolers			
39							
40							
41							
42							
43							
44							

	Н	I	J	K	L	М	N	0
45								
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	Α	В	С	D	E	F	G	Н			
1					TABLE 2 - 3						
3					YTICAL REC	81.		RY			
4	DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA										
5											
6	Analytical p	parameter and Method	IVIa	trix	Sample Pr	eservation	Holdir	ng Time			
7		ethanol, 1-propanol, 1-butanol, 2- utanol (8015D)	drinkin	g water	lce,	6°C	7 (days			
8	Alkalin	ity (2320B, 2340B)	drinkin	g water	lce,	6°C	14	days			
9		nide, Fluoride, Nitrate/Nitrate as N, s as P, Sulfate as SO4 (300.0)	drinkinį	g water	lce,	6°C	28	days			
10	Bacteria	(total coliform, HPC)	drinkin	g water	Ice, 4°C (.00 if residual (8% Na2S2O3 Cl- present)	6 h	ours			
11	d13C and d2	2H of methane (Isotech)	drinkin	g water	Ice, 4°C, bi sample c	ocide pill in container	6 m	onths			
12	d13C of ino	organic carbon (Isotech)	drinkin	g water	Ice, 4°C		6 months				
13	Complete composit	ional analysis of headspace gas (isotech)	drinking water		Ice, 4°C, biocide pill in sample container		6 months				
14	Diss. gases metha	ane, ethane, ethene (isotech)	drinkin	drinking water		Ice, 4°C, biocide pill in sample container		onths			
15	Dissolved Gases, Metl	hane, Ethane, & Ethene (RSK-175)	drinking water		pH<2 with HCl and cool with ice, 4°C		7 days				
16	Ethyle	ne Glycol (8015M)	drinkin	drinking water		drinking water		4°C	7 (days	
17	С	DRO (8105M)	drinkin	g water	lce,	4°C		act; 40 days alysis			
18	C	GRO (8105M)	drinkin	g water		HCl and cool ce, 4°C	14	days			
19		a-226, Ra-228, Th-232, Th-234, U- , U-238) (901.1)	drinkin	g water		NO3 and cool ce, 4°C	6 m	onths			
20	Glycols incl.	2-Butoxyethanol (8316)	drinkin	g water	lce,	6°C	7 (days			
21	Gross A	Alpha/Beta (900.0)	drinking water		pH<2 with H	NO3 and cool ce, 4°C	6 m	onths			
22		. Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, I, Co, Tl, U, V, K, Hg (200.8/245.1)	pH-drinking water		pH<2 with H with i	NO3 and cool ce, 4°C	6 m	onths			
23		. Fe, Mg, Mn, Ni, Na, As, Se, Zn, Ti, I, Co, Tl, U, V, K, Hg (200.8/245.1)	(filtered) dri	pH<2 with HNO3 and cool (filtered) drinking water with ice, 4°C		6 m	onths				
24	Methylene Blue Activ	re Substances (MBAS) (SM 5540C)	drinkinį	g water	lce,	4°C	48 l	nours			

	Α	В	С	D	E	F	G	Н	
						04, and cool			
25	Nitrate/Ni	trite (Total N) (353.2)	drinkin	drinking water		with ice, 4°C		7 days	
26	Oil & Gre	ease (HEM) (1664A)	drinkin	drinking water		pH<2, H2SO4, and cool with ice, 4°C		28 days	
		() (===)		8		,			
27		pH (9040C)	drinkin	g water	lce,	6°C	As soon a	as possible	
28	Phosph	orus, Total (365.1)	drinkin	g water	lce,	6°C	28	days	
29	D	226 (002 1)	drinkin	a water	pH<2 with HI		6 m	onths	
29	K	a-226 (903.1)	arinkin	g water	With it	ce, 4°C	o mi	ontris	
30	D	229 (004 0)	drinkin	a water	pH<2 with HI	NO3 and cool ce, 4°C	e m	onths	
30	No	a-228 (904.0)	UIIIKIII	g water	WICH	.е, 4 С	0 111	UIILIIS	
31	Semi-Volatiles	(TCL plus TICs) (OLC03.2)	drinkin	g water	lce,	6°C	7 (days	
000 800									
32	Solids, Total Di	issolved (TDS) (SM 2540C)	drinkin	g water	Ice,	6°C	7 days		
33	Solids, Total Su	spended (TSS) (SM 2540D)	drinkin	g water	lce, 6°C		7 days		
34	Stable isotope	s of water (O,H) (Isotech)	drinking water		lce,	Ice, 4°C		onths	
35	Turbidity, Nephelometric (180.1)		Turbidity, Nephelometric (180.1) drinking water		Ice, 4°C		48 hours		
36	2-Metho	oxyethanol (8015B)	drinkin	g water	lce,	6°C	7 c	days	
37	1-methylnapth	alene (8270 or equivalent)	drinkin	g water	lce,	6°C	7 c	days	
		TICs) (CLP Trace - 0.5 ug/L QL)			2 drops of 1	0.150			
38		2) incl. Acrylonitrile		g water	· ·	6°C		days	
-	-	l be combined into sample	bottles as a	pplicable/a	ppropriate	based on d	eterminati	on by lab(s)	
-	KEY: Celsius		milliliter						
-	C14 = Carbon 14		= Sodium						
	CLP = Contract Lab		potential						
-	D13C = delta of		QL =						
45	D2H = delta of		Sr =						
46	Acid		Target						
$\overline{}$	density		Tentativel						
	HN03 = Nitric Acid		microgra						
49	Heterotrophic		paramete						

	l J	K L	М
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4			
5	Sample Container(s)	Procurement	Number
6	Sample Container(s)	Source or Lab	
7	Three 40-ml glass vials (Fill to capacity space)	with no head Ft. Meade	3
8	One 500-ml HDPE	Ft. Meade	1
9	One 500-ml HDPE	Ft. Meade	1
10	125 ml Pre-sterilized polyproy	lene Tier 4	1
11	one 1-L poly/TBD*	Tier 4	1
12	one 1-L poly/TBD*	Tier 4	1
13	one 1-L poly/TBD*	Tier 4	1
14	one 1-L poly/TBD*	Tier 4	1
15	One 40-ml glass vial	Tier 4	1
16	Three 40-ml glass vials (Fill to capacity space)	with no head Tier 4	3
17	Two 1-Liter amber glass jars with teflo	on-lined lids	2
18	Three 40-ml glass vials (Fill to capacity space)	with no head	3
19	One 1-Liter HDPE	Tier 4	1
20	Three 40-ml glass vials (Fill to capacity space)	with no head Ft. Meade	3
21	One 1-Liter HDPE	Tier 4	1
22	One 1-Liter HDPE	Ft. Meade	1
23	One 1-Liter HDPE	Ft. Meade	1
24	One 500-ml HDPE	Tier 4	1

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				3.00	
25	Two 1-Liter amber glass jars with teflon-lined lids			Ft. Meade	2
26	One 1-Liter amber glass jars with teflon-lined lids			Tier 4	1
3 2004	,				
27	One 250-ml HDPE			Ft. Meade	1
28	One 400-ml HDPE			Ft. Meade	1
29	One 1-Liter HDPE			Tier 4	1
30	One 1-Liter HDPE			Tier 4	1
31	Two 1-Liter amber glass jars with teflon-lined lids			Ft. Meade	2
32	One 500-ml HDPE			Ft. Meade	1
					~ ~
33	One 500-ml HDPE			Ft. Meade	1
34	one 1-L poly/TBD*			Tier 4	1
٦٠				T' 4	
35	One 250-ml HDPE			Tier 4	1
36	Total Library and an electric with tellar line of lide			Tier 4	2
30	Two 1-Liter amber glass jars with teflon-lined lids			Tier 4	2
37	7 Two 1 Liter amper glass into with tellan line dilida			Tier 4	2
37	Two 1-Liter amber glass jars with teflon-lined lids			1161 4	
38	Six 40-ml glass vials w/Teflon lined cap (no head space)			Ft. Meade	6
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